



JQX-116F-1


MINIATURE HIGH POWER RELAY



File No.:E134517



File No.:R50031086



File No.:CQC02001001945



Features

- 30 A switching capabilities
- SPST and DPST configurations
- 4KV dielectric strength coil to contacts
- Heavy load up to 7500VA
- Class F insulation
- 3mm contact gap available

CONTACT DATA		
Contact Arrangement	1A	2A
Initial Contact Resistance Max.	100mΩ (at1A 24VDC)	
Contact Material	Silver Alloy	
Contact Rating (Res. Load)	30A 250VAC	25A 250VAC
	30A 28VDC	25A 28VDC
Max. switching voltage	277VAC/28VDC	
Max. switching current	30A	25A
Max. switching power	7500VA/840W	6250VA/700W
Mechanical life	1 x 10 ⁷ OPS	
Electrical life	1 x 10 ⁵ OPS	

CHARACTERISTICS		
Initial Insulation Resistance		1000MΩ 500VDC
Dielectric Strength	Between coil and Contacts	4000VAC 1min.
	Between open contacts	2000VAC 1min.
Operate time (at nomi. Volt.)		Max. 30ms
Release time (at nomi. Volt.)		Max. 30ms
Shock Resistance	Functional	98 m/s ²
	Destructive	980 m/s ²
Vibration Resistance		DA: 1.5mm, 10 to 55Hz
Ambient temperature		-55°C to +70°C
Humidity		98%, +40°C
Termination		PCB & QC, Screw
Unit weight		Approx. 120g
Construction		Dust Cover

COIL		
Coil power	DC:1.9W	AC:2.7VA

COIL DATA			
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Coil Resistance Ω
3	2.25	0.3	4.7 ± 10%
6	4.50	0.6	18.8 ± 10%
12	9.00	1.2	75 ± 10%
24	18.0	2.4	300 ± 10%
48	36.0	4.8	1200 ± 10%
100	75.0	10.0	5200 ± 10%
110	82.5	12.0	6300 ± 10%
200	150	20.0	21000 ± 10%

Nominal Voltage VAC	Pick-up Voltage VAC	Drop-out Voltage VAC	Coil Resistance Ω
6	4.80	0.90	18.8 ± 10%
12	9.60	1.80	75 ± 10%
24	19.2	3.60	300 ± 10%
48	38.4	7.20	1200 ± 10%
120	96.0	18.0	5200 ± 10%
220	176	33.0	20800 ± 10%

SAFETY APPROVAL RATINGS		
UL	AgSnO ₂	30A 277VAC 1.5HP 120VAC,3HP 240VAC 10A 120VAC
	AgCdO	30A 277VAC 1.5HP 120VAC,3HP 240VAC 10A 120VAC Tungsten TV-10 120VAC
TÜV	27A 240VAC cos phi=0.8 25A 240VAC cos phi=0.4 25A 240VAC cos phi=1	

ORDERING INFORMATION

		JQX-116F-1 / 018		D	A	1H	T	F	W	C
Type										
Coil voltage	DC: 3 to 200VDC		AC: 6 to 220VAC							
Coil input	D: DC		A: AC							
Mounting	A: Mount		P: PCB		F: Flanged					
Contact arrangement	1H: 1 Form A		2H: 2 Form A							
Contact Material	T: AgSnO ₂		Nil: AgCdO							
Insulation System	Nil: Class B		F: Class F							
Contact Gap	W: 3.0mm		Nil: Standard Gap							
Capacitor	C: With Capacitor(for AC only)				Nil: Without Capacitor					

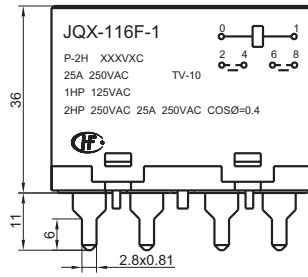
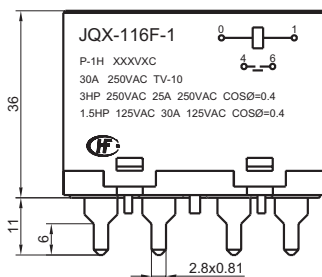
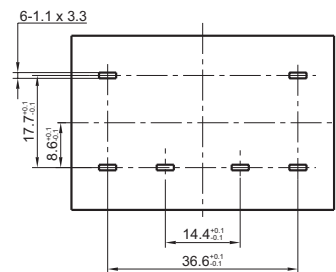
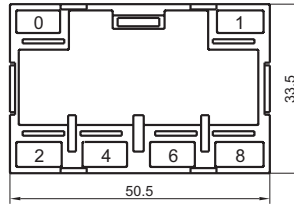
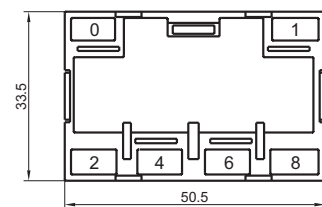
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Outline dimensions

PCB Layout

JQX-116F-1/□□□-□-P-1H-□

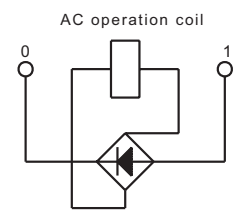
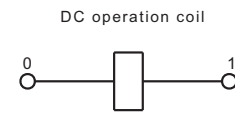
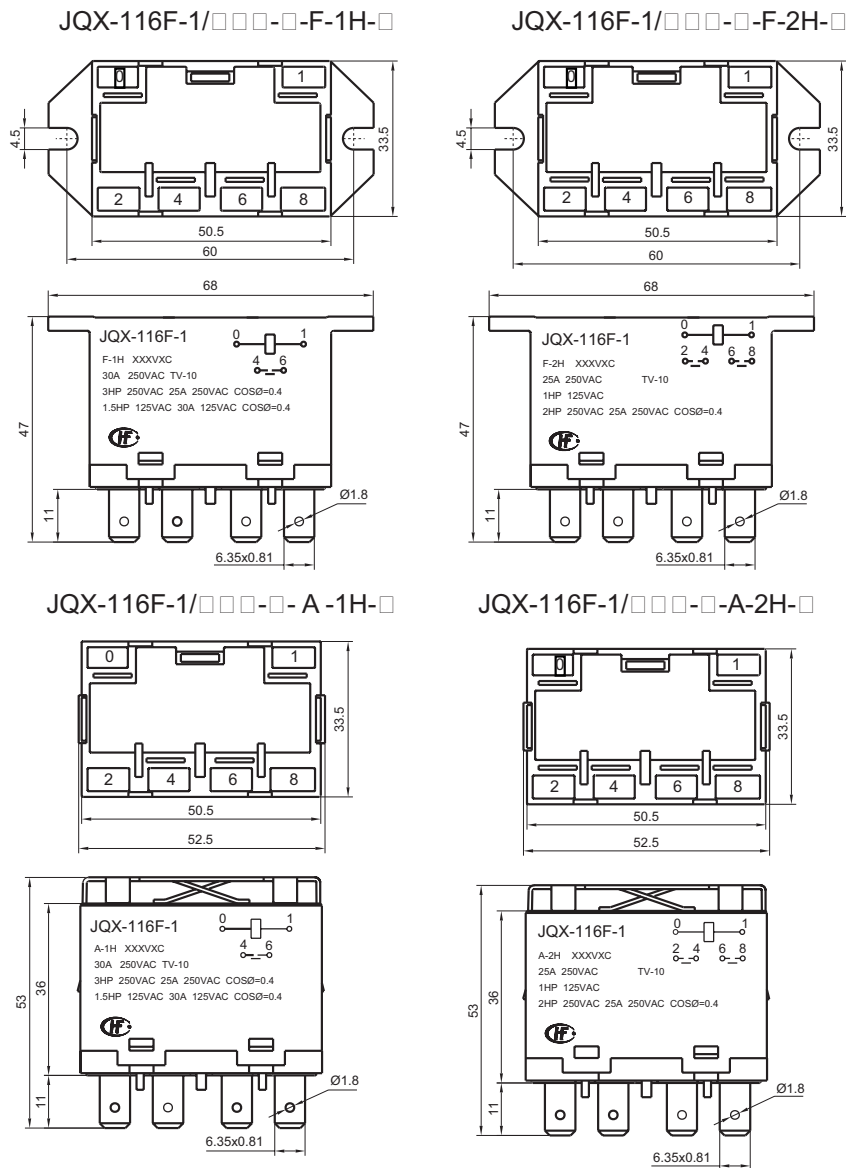
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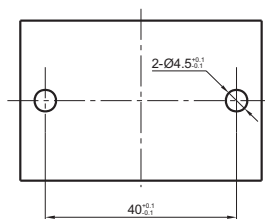
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Outline Dimensions

Wiring Diagram



Mounting holes



CHARACTERISTICS CURVE

